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IS 11879 (1986): Electric steam cookers [ETD 32: Electrical Appliances]



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“Knowledge is such a treasure which cannot be stolen”

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IS : 11879 - 1986
(Reaffirmed 1996)

Indian Standard
SPECIFICATION FOR
ELECTRIC STEAM COOKERS

(First Reprint JANUARY 1998)

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

**AMENDMENT NO. 2 MAY 2002
TO
IS 11879 : 1986 SPECIFICATION FOR ELECTRIC
STEAM COOKERS**

[*Pages 3 to 12 (see also Amendment No. 1)*] — Substitute 'IS 302-2-46 : 1993 Safety of household and similar electrical appliances : Part 2 Particular requirements, Section 46 Electric steam cookers' *for* 'IS 302-1(1979) Safety of household and similar electrical appliances : Part 1 General requirements (*fifth revision*)' wherever it appears in the standard.

(ETD 32)

Reprography Unit, BIS. New Delhi, India

Indian Standard

SPECIFICATION FOR ELECTRIC STEAM COOKERS

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SPECIFICATION FOR ELECTRIC STEAM COOKERS

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 28 October 1986, after the draft finalized by the Electrical Appliances Sectional Committee had been approved by the Electrotechnical Division Council.

0.2 This standard covers the general, safety and performance requirements of electric steam cookers.

0.3 This standard is to be read in conjunction with IS : 302-1979*. For the sake of convenience, the clauses of this standard correspond to those of IS : 302-1979*. Instead of reproducing full text of each clause, clauses of IS : 302-1979* which are applicable (which means that relevant provisions of the clause apply) or not applicable and the sub-clauses or portions thereof which are not applicable are indicated as under:

a) In case of a clause where it is applicable or not applicable, the wording used is 'This clause of IS : 302-1979* is applicable/not applicable '.

b) In case of a sub-clause or part thereof ' Not applicable '.

Wherever a subclause of IS : 302-1979* is to be replaced by a new text, it has been indicated as under:

" Replacement — followed by the new text ".

Any addition to the existing provisions of a sub-clause of IS : 302-1979* has been indicated as under:

'Addition — followed by the text of the additional matter'.

Clauses/tables which are additional to those of IS : 302-1979* are numbered starting from **101** and additional sub-clauses are numbered with the main clause number followed by **101, 102**, etc, that is **7.101**.

Should however any deviation exist between IS : 302-1979* and this standard, the provisions of the latter shall apply.

0.4 While preparing this standard assistance has been derived from IEC document 61E (Central Office) 20 Part 2 : Particular requirements

*General and safety requirements for household and similar electrical Appliances (fifth revision).

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for the safety of commercial electric steam cookers ', issued by the International Electrotechnical Commission.

0.5 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

This clause of IS : 302-1979† is applicable except as follows:

1.1 Replacement

This standard is applicable to electrically operated household steam cookers.

1.2 Replacement

This standard does not apply to:

- a) Commercial or industrial steam cookers,
- b) Steam cookeri with electrode heaters, and
- c) Steam pressure cookers.

2. DEFINITIONS

This c'ausc of IS : 302-1979† is applicable except as follows:

2.18 and **2.19** Not applicable.

2.19 Replacement

Conditions of adequate heat discharge denote:

- that the appliance is operated in accordance with the manufacturer's instructions with all controls intended to be operated by the user adjusted to their maximum setting until reaching operating temperature when they are readjusted to the lowest setting that maintains operating temperature.
- that lids, doors, and covers are in position and closed.
- that the cooking compartment of the appliance shall contain a water load, initially at $27 \pm 5^{\circ}\text{C}$, comprising 0.5 l/kg of the manufacturer's declared maximum food load.

*Rules for rounding off numerical values (*revised*).

†Gcneral and safety requirements for household and similar electrical appliances (*fifth revision*).

- since pans may be perforated to allow for circulation of steam, the water load may be contained in suitable containers evenly distributed over the pans or shelves.

2.30 Not applicable

Additional sub-clause

2.101 Steam Cooker — An appliance intended for the cooking of food by means of direct steam contact.

3. GENERAL REQUIREMENTS

This clause of IS : 302-1979* is applicable except as follows:

3.1 Para 2 not applicable.

4. GENERAL NOTES ON TESTS

This clause of IS : 302-1979* is applicable except as follows:

4.2 Addition

If the steam cookers are intended to be immersed in water fully or partially for cleaning, three additional samples are required.

4.8, 4.10, 4.13 and 4.14 Not applicable.

5. RATING

This clause of IS : 302-1979* is applicable.

6. CLASSIFICATION

This clause of IS : 302-1979* is applicable.

7. MARKING

This clause of IS : 302-1979* is applicable except as follows.

7.1 Replacement

This steam cooker shall be marked with the following information:

- a) Rated voltage in volts,
- b) Rated input in watts or kilowatts or rated current in amperes:
- c) Rated capacity in litres,

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- d) Marking indicating the different switch positions and corresponding rated input in case multi step switches are used,
- e) Manufacturer's name or trade-mark,
- f) Manufacturer's model or type reference, and
- g) Country of origin.

Additional sub-clause

7.101 For steam cookers not intended to be immersed, the instruction leaflet shall state that the steam cooker must not be immersed.

NOTE — Portable steam cookers are generally considered as appliances intended to be fully or partially immersed in water while cleaning.

7.102 Steam cookers intended to be partially immersed in water shall be clearly marked with an identified water line and bear the warning 'do not immerse beyond water line '

The water line indicating the minimum depth of immersion shall be spaced at least 5 cm from any seam or seals that are not capable of withstanding the moisture resistance test given in 15.

7.103 For appliances other than those of watertight construction which are intended to be immersed in water while cleaning, the instruction sheet shall state that the connector must be removed before the cooker is cleaned and that the appliance inlet must be dried before the cooker is used again.

7.104 For cooker intended to be used with a connector incorporating a thermostat the instruction sheet shall state that the cooker must be used only with the appropriate connector.

7.105 Electric steam cookers may also be marked with the Standard Mark.

NOTE — The use of the Standard Mark is governed by the provisions of the Bureau of Indian Standards Act and the Rules and Regulations made thereunder. The Standard Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard, under a well-defined system of inspection, testing and quality control which is devised and supervised by BIS and operated by the producer. Standard marked products are also continuously checked by BIS for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the Standard Mark may be granted to manufacturers or producers, may be obtained from the Bureau of Indian Standards.

8. PROTECTION AGAINST ELECTRIC SHOCK

This clause of IS : 302-1979* is applicable except as follows:

8.2, 8.3, 8.7 and 8.8 Not applicable.

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9. STARTING OF MOTOR OPERATED APPLIANCES

This clause of IS : 302-1979* is not applicable.

10. INPUT AND CURRENT

This clause of IS : 302-1979* is applicable except as follows:

10.1 Addition

For multiple units the input may be determined by measuring the total input of each unit separately.

10.2 Not applicable.

11. TEMPERATURE RISE

This clause of IS : 302-1979* is applicable except as follows:

11.5, 11.6, 11.9 and 11.10 not applicable.

12. OPERATION UNDER OVERLOAD CONDITIONS OF APPLIANCES WITH HEATING ELEMENTS

This clause of IS : 302-1979* is applicable except as follows:

12.3 Not applicable.

13. ELECTRICAL INSULATION AND LEAKAGE CURRENT AT OPERATING TEMPERATURE

This clause of IS : 302-1979* is applicable.

14. RADIO AND TELEVISION INTERFERENCE SUPPRESSION

This clause of IS : 302-1979* is applicable.

15. MOISTURE RESISTANCE

This clause of IS : 302-1979* is applicable except as follows:

15.1 and 15.2 not applicable.

Additional sub-clause

15.101 Appliances intended to be partially or completely immersed in water for cleaning shall have adequate protection against the effects of immersion. Compliance is checked by the following tests, which are made on three additional samples.

The samples are operated empty, with any thermostat adjusted to the highest setting and at a supply voltages such that the input is 1.15

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times rated input, until the thermostat operates for the first time or, for appliances without a thermostat, until the centre of the heated surface attains the temperature as specified for conditions of adequate heat discharge.

The connectors are then withdrawn or the supply otherwise switched off and the samples immediately immersed completely in water having a temperature between 10 and 25°C, unless they are marked with a line indicating the maximum depth of immersion, in which case they are immersed to the depth indicated. After 1 h of immersion, the samples are removed from the water and dried, care being taken to ensure that all moisture is removed from the insulation in the vicinity of the pins of appliance inlets. The leakage current is then measured as described in **16.2**. For each of the three samples, the leakage current shall not exceed the value specified in **16.2**.

The test described above and the measurement of the leakage current are made five times, after which the samples shall withstand an electric strength test as specified in **16.4**, the test voltage being, however, reduced to 1 000 V.

The sample showing the largest leakage current after the fifth immersion is dismantled, and inspection shall show that water has not entered the appliance to any appreciable extent and that there is no trace of water on insulation for which creepage distances are specified in **29.1**.

The remaining two empty samples are then operated with any thermostat adjusted to the highest setting or, for appliances without a thermostat, so that the centre of the heated surface attains a temperature of 250°C, for 10 days (240 h). During this period, the samples are allowed to cool to approximately room temperature five times at regular intervals. After this period, the connectors of the two samples are withdrawn or the supply otherwise switched off and the samples immediately immersed once more in water for 1 h as described before. They are then dried and the leakage current is measured again as described in **16.2**. For each of the two samples, the leakage current shall not exceed the value specified in **16.2**. These samples shall then withstand an electrical strength test as specified before, and visual inspection shall show that water has not entered the appliance to any appreciable extent and that there is no trace of water on insulation for which creepage distances are specified in **29.1**.

NOTE — When inspecting the appliances for the presence of water, special attention is paid to parts of the appliance in which electrical components are situated.

16. INSULATION RESISTANCE AND ELECTRIC STRENGTH (AFTER HUMIDITY TREATMENT)

This clause of IS : 302-1979* is applicable except as follows:

16.3 Not applicable.

17. OVERLOAD PROTECTION

This clause of IS : 302-1979* is applicable.

18. ENDURANCE

This clause of IS : 302-1979* is applicable except as follows:

18.1 Para 3 Not applicable.

18.2 Replacement

The steam cooker shall be operated under maximum rated load and at a voltage of 1.1 times the rated voltage for 50 cycles of 5 hours ON and one hour OFF. This test shall then be repeated at a voltage 0.9 times the rated voltage. During this test, the cooker is filled with sufficient quantity of water and small quantities of water shall be periodically added to make up for any loss of water due to evaporation.

18.3 and **18.4** Not applicable.

19. ABNORMAL OPERATION

This clause of IS : 302-1979* is applicable except as follows:

19.1 Replacement

Appliances shall be so designed that the risk of fire, mechanical damage impairing safety or the protection against electric shock as a result of abnormal or careless operation is obviated as far as is practicable.

Compliance is checked by the tests of **19.2** to **19.4**.

If, in any of the tests, a non-self-resetting thermal cut-out operates, a heating element ruptures or if the current is otherwise interrupted before steady conditions are established, the heating period is considered to be ended, but if the interruption is due to the rupture of a heating element or of an intentionally weak part, the relevant test is repeated on a second samples which shall then also comply with the conditions specified in **19.11**.

Rupture of a heating element or of an intentionally weak part in the second sample will not in itself entail a rejection.

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Fuses, thermal cut-outs, overcurrent releases or the like incorporated into the appliance, may be used to provide the necessary protection.

If more than one of the tests are applicable for the same appliance, these tests are made consecutively.

Provisions of **19.11** apply to all appliances.

19.2 Replacement

The steam cooker is operated under conditions specified in **11** but without water, the supply voltage being such that the input is 0.85 times the rated input.

If a non self-resetting thermal cut-out operates, or if the current is otherwise interrupted before steady conditions are established, the operating period is considered to be ended and the test of **19.3** is not made.

If interruption of the current does not occur, the steam cooker is switched off as soon as steady conditions are established, and is allowed to cool down to approximately room temperature. The appliance is then subjected to the test of **19.3**.

19.5 and **19.10** Not applicable.

20. STABILITY AND MECHANICAL STRENGTH

This clause of IS : 302-1979* is applicable except as follows:

20.1 Addition

Covers, lids, and accessories are placed in the most unfavourable positions.

For the purpose of this test any spillage of liquid is ignored.

20.2 Not applicable.

21. MECHANICAL STRENGTH

This clause of IS : 302-1979* is applicable except as follows:

21.2 to **21.4** Not applicable.

22. CONSTRUCTION

This clause of IS : 302-1979* is applicable except as follows:

22.1 Replacement

Steam cookers shall be of class 1 construction.

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(fifth revision).

22.15, 22.18, 22.20, 22.24, 22.25, 22.29 and 22.32 not applicable.

Additional sub-clauses

22.101 The heating element or elements shall be so designed and located that the heating conditions required for cooking can be obtained and local overheating or burning of foodstuffs is avoided. The elements shall be easily accessible for inspection, repair and replacement. It shall not get displaced when the steam cooker is lifted by its carrying handle, if any, or for a broken element to fall out of the steam cooker. Compliance is checked by inspection and manual test.

22.102 A thermostat shall be provided to control the temperature within the steam cooker.

22.103 Thermal cut outs shall be of non-self-resetting trip free type compliance is checked by inspection and by manual test.

22.104 Switches and controls shall be so located and protected that these are not subjected to mechanical injury, spillage from cooking or collection of grease. Compliance is checked by inspection and by test of **15.3**.

22.105 The inner container of the steam cooker shall be made of either aluminium or stainless steel of sufficient thickness so as to make it withstand normal wear and tear.

Compliance is checked by inspection.

23. INTERNAL WIRING

This clause of IS : 302-1979* is applicable except as follows:

23.2 Replacement

The wiring and all the components used in the steam cooker shall be constructed and fixed in such a manner that these shall be able to withstand continuously the temperature to which these are exposed when the steam cooker is operated at its maximum temperature. All the wiring and components shall be suitably protected from spillage or overflow from the inner container of the steam cooker.

24. COMPONENTS

This clause of IS : 302-1979* is applicable except as follows:

24.9 and 24.10 not applicable.

25. SUPPLY CONNECTION AND EXTERNAL FLEXIBLE CABLES AND CORDS

This clause of IS : 302-1979* is applicable except as follows:

25.10 Not applicable.

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26. TERMINALS FOR EXTERNAL CONDUCTORS

This clause of IS : 302-1979* is applicable.

27. PROVISION FOR EARTHING

This clause of IS : 302-1979* is applicable.

28. SCREWS AND CONNECTIONS

This clause of IS : 302-1979* is applicable.

29. CREEPAGE DISTANCES AND CLEARANCES

This clause of IS : 302-1979* is applicable.

30. RESISTANCE TO HEAT FIRE AND TRACKING

This clause of IS : 302-1979* is applicable.

31. RESISTANCE TO RUSTING

This clause of IS : 302-1979* is applicable.

32. RADIATION HAZARDS

This clause of IS : 302-1979* is applicable.

33. FINISH

This clause of IS : 302-1979* is applicable.

Additional clauses

101. TESTS

101.0 Categories of Tests — The tests are classified as type, routine and acceptance tests.

101.1 Type Tests — The tests specified in Table 101 shall constitute type tests and shall be carried out on two samples of the same type and rating selected preferably at random from a regular production lot.

101.1.1 Both the samples shall successfully pass all the type tests for proving conformity with requirements of the standard. If any of the samples should fail in any of the type test(s), the testing authority at its discretion may call for fresh samples not exceeding twice the original number and subject them again to all the tests or to the test(s) in which failure(s) occurred: No failure shall be permitted in the repeat tests.

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101.2 Acceptance Tests — The following shall constitute the acceptance tests:

<i>Test</i>	<i>Clause Reference</i>
a) Protection against electric shock	8
b) Input	10
c) Temperature rise	11
d) Leakage current and high voltage at operating temperature	13
e) Moisture resistance	15
f) Insulation resistance and electric strength (after humidity treatment)	16
g) Provision for earthing	27

101.2.1 A recommended sampling plan is given in Appendix B of IS : 302-1979*

TABLE 101 SCHEDULE OF TYPE TESTS
(Clause 101.1)

SL No.	TEST	CLAUSF. REFERENCE
(1)	(2)	(3)
1	Protection against electric shock	8
2	Input	10
3	Temperature-rise	11
4	Operation under overload conditions	12
5	Leakage current and high voltage at operating temperature	13
6	Moisture resistance	15
7	Insulation resistance and electric strength (after humidity treatment)	16
8	Overload protection	17
9	Endurance	18
10	Abnormal operation	19
11	Stability and mechanical hazards	20
12	Mechanical strength	21
13	Cord grip and cord guard	25
14	Screws and connections	28
15	Creepage distances and clearances	29
16	Resistance to heat, fire and tracking	30
17	Resistance to rusting	31
18	Finish	33

NOTE — In case, test of **15.101** is applicable, three additional samples are required for carrying out this test (*see 4.2*).

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101.3 Routine Tests — The following shall constitute the routine tests:

<i>Test</i>	<i>Clause Reference</i>
a) Protection against electric shock	8
b) High voltage	13.3.2 of IS : 302-1979*
c) Earthing connection	27

NOTE 1 — Before commencement of the tests, the appliance shall be visually examined and inspected for obvious visual defects in respect of components, parts and their assembly, constructional requirements, marking and provision of suitable terminals for supply connections and earthing.

NOTE 2 — The supply connections shall be of size appropriate to the rating (sec 25).

A P P E N D I X A
TABLES OF TYPE TESTS

This appendix of IS : 302-1979* is not applicable.

A P P E N D I X B
(Clause 101.2.1)
SAMPLING PROCEDURE FOR ACCEPTANCE TESTS

This appendix of IS ; 302-1979* is applicable.

A P P E N D I X C
ELECTRONIC CIRCUITS

This appendix of IS : 302-1979* is applicable if electronic circuits are used.

A P P E N D I X D
MEASUREMENT OF TEMPERATURE WITH THERMOMETERS

This appendix of IS : 302-1979* is applicable.

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APPENDIX E

ALTERNATIVE TESTS FOR PROTECTED MOTOR UNITS

This appendix of IS: 302-1979* is not applicable.

APPENDIX F

IMPACT TEST APPARATUS

This appendix of IS : 302-1979* is applicable.

APPENDIX G

THERMAL CONTROLS AND OVERLOAD RELEASES

This appendix of IS : 302-1979* is applicable if thermal controls and overload releases are used.

APPENDIX H

MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES

This appendix of IS : 302-1979* is applicable.

APPENDIX J

TEST FOR FIRE RESISTING PROPERTIES

This appendix of IS : 302-1979* is applicable.

APPENDIX K

BNF JET TEST FOR DETERMINATION OF THICKNESS OF COPPER AND NICKEL PLATING

This appendix of IS : 302-1979* is applicable if copper and nickel plating is used for finishing.

APPENDIX L

APPROXIMATE MEASUREMENT OF THICKNESS OF CHROMIUM ON NICKEL, STEEL AND COPPER

This appendix of IS : 302-1979* is applicable if chromium plating is used for finishing.

*General and safety requirements for household and similar electrical appliances (fifth revision).

AMENDMENT NO. 1 JUNE 1992
TO
IS 11879: 1986 SPECIFICATION FOR ELECTRIC
STEAM COOKERS

Substitute 'IS 302-1(1979) Safety of household and similar electrical appliances : Part 1 General requirements (*fifth revision*)' for 'IS 302 : 1979 General and safety requirements for household and similar electrical appliances (*fifth revision*)' wherever it appears in the standard.

(ETD32)

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